Networking Transportation

Brett Fusco Assistant Manager, Long-Range Planning Delaware Valley Regional Planning Commission

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GREATER PHILADELPHIA **UTURES GROUP** ENGAGE, COLLABORATE, ENVISION

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CONTRACTOR COMMISSION

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Metropolitan Planning Organization (MPO):

- Long-Range Plan
- Transportation Improvement Program (TIP)
- Regional Convener



Agenda

Connected Transportation Projects

Challenges

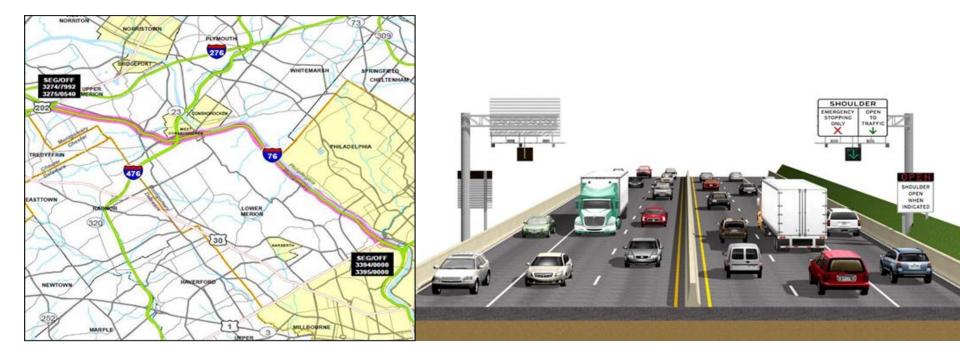
- Funding
- Big Picture Change
- Adapting a New 'Theory of Transportation'

A New Regional Vision

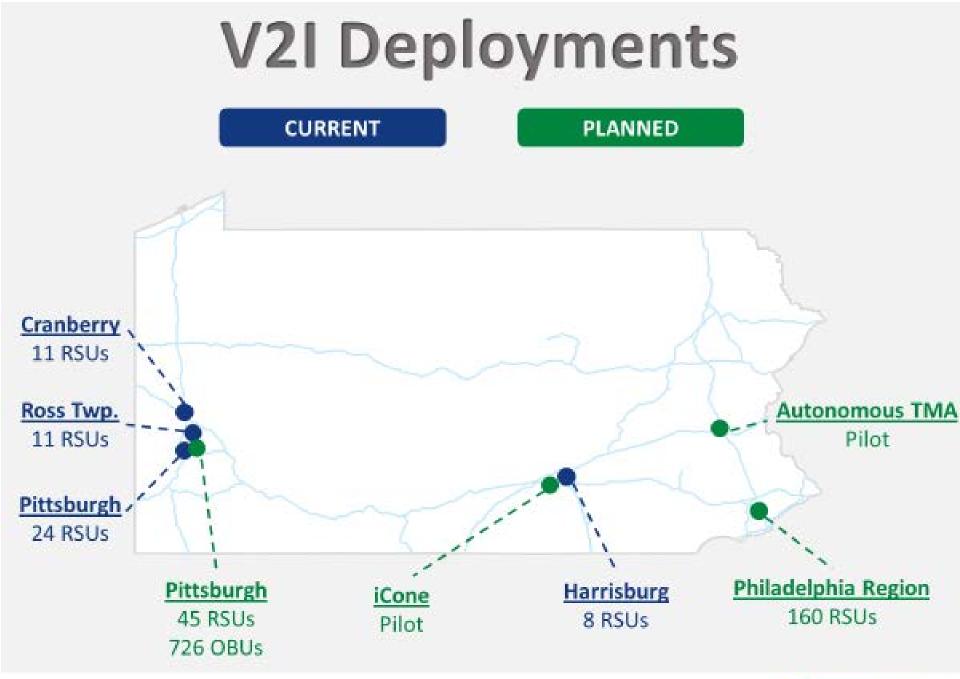
Transit Information Technology



I-76 Integrated Corridor Management









Autonomous TMA



www.royaltruckandequipment.com/atma

Follower Vehicle (unmanned)

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LATEST NEWS

TxDOT unveils new merging strategy

By Cody Weems, Temple Daily Telegram Published: January 24, 2017 The Texas Department of Transportation will soon implement a new way for ... Read More



The iCone locates itself, monitors traffic speed and links to the web, but it looks like a traffic barrel to the public.

VIEW LIVE TRAFFIC DATA NOW >>





Harrisburg Autonomous Shuttle



Source: Local Motors

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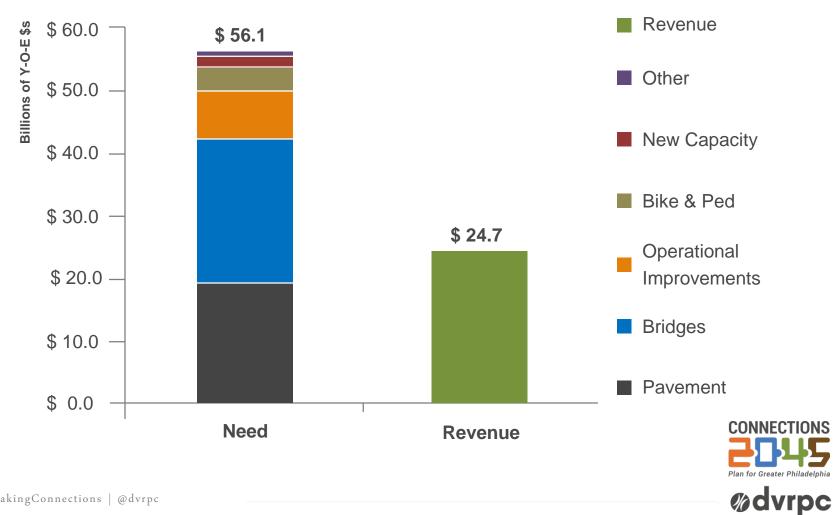
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Digital Transportation Services



Transportation Funding, 2018-2045

SE Pennsylvania Roadways



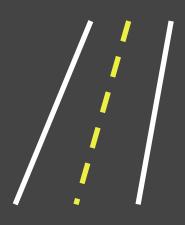
The Big Picture

4 Industrial Revolutions:

	1750	1800	1850	1900 1950	2000	
	FIRST (177	′0s)	SECOND (1870s)	THIRD (1960s)	FOURTH (2010s)	
Technology	Steam Powe Mechanical F		Electricity Mass Production	Electronics & Computers Automated Production	Robotics & AI 3-D Printing ???	
Urban Form	Factories		Skyscrapers & Elevators Suburbanization	Globalization (Deindustrialization) Internet & e-commerc	Smart Cities & IoT Networked Space e ???	
Transportation	Canals Railroads		Subways & Trolleys Cars, Buses, Trucks Airplanes	ITS Real-Time Transport Space Exploration	CVs & HAVs UASs (Drones) ???	
Adapted from World Economic Forum				The Digital Revolution		



Competing Transportation Theories







<u>Auto-Oriented</u> Increase Mobility Separation of Uses New & Wider Roads Active/Sustainable Increase Accessibility Mixed Use, High Density Walking, Biking, Transit

<u>Digital</u>

Increase Information Live/Work Where You Want "Smart" Facilities













"Throw out current thinking and forms of transportation and start again."

"More partnerships with different groups and industries in planning transportation systems."

"Integrate technology better into infrastructure."

"Tax driving In the city."

Digital Equity Implications

New Technologies & Options Can:

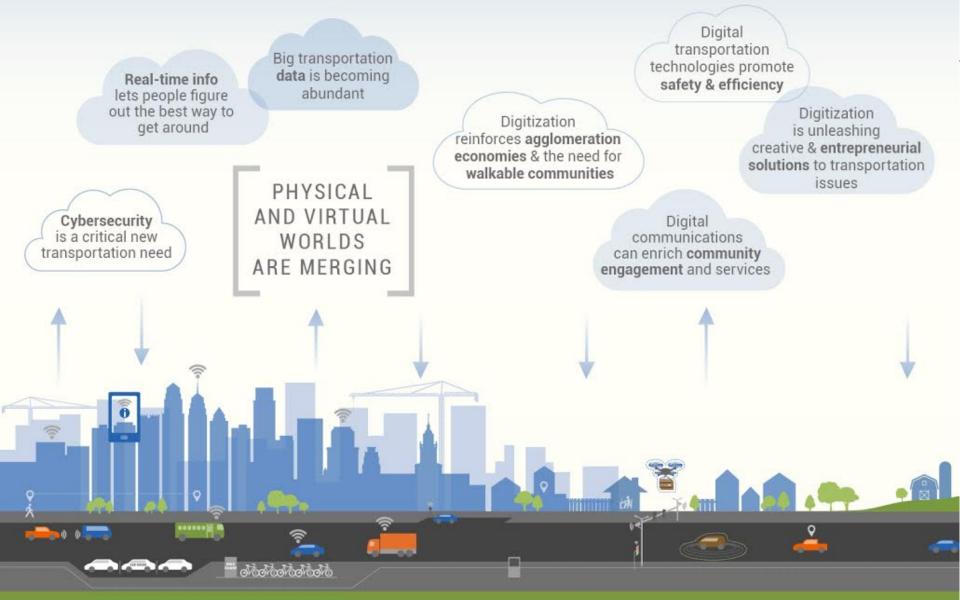
- Lower Transportation Costs
- Improve Access to Jobs & Services
- Enhance Paratransit

Society May Need to:

- Provide Subsidies Based on Need
- Ensure Digital Providers Serve Low-Income Areas
- Develop Prepaid or Digital Banking Options
- Provide Alternative On-Demand Ride-Hailing Methods:
 - Concierge / Corner Store / Phone Call / Kiosk



AN INTEGRATED, MULTIMODAL TRANSPORTATION NETWORK





Thank You!

www.dvrpc.org/connections2045

bfusco@dvrpc.org



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